

WHAT IS CLAIMED IS:

1. A syringe, comprising:

a hollow barrel with an open proximal end and a conical distal tip, the conical tip being adapted for insertion into a female fitment with a conical inner surface;

a plunger assembly inserted into the open proximal end, the plunger assembly and the hollow barrel defining an internal variable volume chamber for retaining fluid;

wherein the exterior surface of the tip is textured, such that the force required to disengage the textured tip from the female fitment when a fluid contaminant is present between the tip and fitment is equal to or greater than the force required to disengage the tip and fitment when the tip and fitment are dry.

2. The syringe of Claim 1, wherein the female fitment has a smooth interior tip contacting surface.

3. The syringe of Claim 2, wherein the force required to disengage the textured tip from the female fitment when the tip and fitment are dry is substantially the same as the force required to disengage an identically dimensioned untextured tip from the female fitment when the untextured tip and fitment are dry.

4. The syringe of Claim 1, wherein when the textured tip and the female fitment are assembled by applying an axial force of 27.5 Newtons for 5 seconds as a twisting action to a value of torque not exceeding 0.1 Newton-meter to give a rotation not exceeding 90 degrees, the force required to disengage the textured tip from the female fitment is at least 25 Newtons as a separation force at a rate of 10 Newtons per second is applied for a period of not less than ten seconds, when the tip and fitment are dry and when a fluid contaminant is present between the tip and fitment.

5. The syringe of Claim 1, wherein the tip has a six percent taper from its proximal to distal end.

6. The syringe of Claim 1, wherein the syringe tip is adapted to connect to the hub of a Foley catheter.

7. A method of improving the engagement force of a luer fitment which has been moistened with a fluid contaminant, comprising the steps of:

providing a first luer fitment with a textured surface;

joining the first luer fitment with a second luer fitment having a second surface, such that the textured surface contacts the second surface;

wherein the textured surface on the first luer fitment is adapted to direct a fluid contaminant away from the textured and second surfaces, such that the force required to disengage the first luer fitment from the second luer fitment when the fitments are dry is substantially the same or less than the force required to disengage the first luer fitment from the second luer fitment when a fluid contaminant is present between the textured and second surfaces.

8. The method of Claim 1, wherein the first luer fitment is a syringe tip and the second luer fitment is a complementary female fitment.

9. The method of Claim 8, wherein the second luer fitment is a catheter hub.

10. The method of Claim 7, wherein the first luer fitment is a female fitment, and the second fitment is a syringe tip.

11. A method of modifying the surface of a luer fitment so that the engagement force of the fitment in a moistened state equals or exceeds the engagement force in an unmoistened state, comprising the steps of:

providing a mold adapted to form a textured surface on a luer fitment;

inserting a luer fitment into the mold, wherein said luer fitment is formed of a material deformable by heat and/or pressure;

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applying heat and/or pressure to the fitment by the mold, such that a textured surface is imprinted on the luer fitment; and  
removing the luer fitment from the mold.

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6 12. The method of Claim 11, wherein the luer fitment is formed of a thermoplastic material.

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